

033072-141

PCT REQUEST

Original (for SUBMISSION)

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10/543122

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| 0 | For receiving Office use only | |
| 0-1 | International Application No. | PCT/US 04/02029 |
| 0-2 | International Filing Date | 26 JAN 2004 (26.01.04) |
| 0-3 | Name of receiving Office and "PCT International Application" | PCT INTERNATIONAL APPLICATION RO/US |
| 0-4 | Form - PCT/RO/101 PCT Request | |
| 0-4-1 | Prepared Using | PCT-SAFE [EASY mode] Version 3.50 (Build 0002.150) |
| 0-5 | Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty | |
| 0-6 | Receiving Office (specified by the applicant) | United States Patent and Trademark Office (USPTO) (RO/US) |
| 0-7 | Applicant's or agent's file reference | 033072-141 |
| I | Title of Invention | MODIFIED TRAFFICKING PATTERNS FOR ARRESTIN AND G-PROTEIN-COUPLED RECEPTORS VIA ARRESTIN-UBIQUITIN CHIMERA |
| II | Applicant | |
| II-1 | This person is: | applicant only |
| II-2 | Applicant for | all designated States except US |
| II-4 | Name: | DUKE UNIVERSITY |
| II-5 | Address: | Erwin Rd Durham, North Carolina 27708 United States of America |
| II-6 | State of nationality | US |
| II-7 | State of residence | US |
| II-8 | Telephone No. | (919) 684-2064 |
| II-9 | Facsimile No. | (919) 681-7559 |
| III-1 | Applicant and/or inventor | |
| III-1-1 | This person is: | applicant and inventor |
| III-1-2 | Applicant for | US only |
| III-1-4 | Name (LAST, First) | SHENOY, Sudha |
| III-1-5 | Address: | 2212 East Old Oxford Rd Chapel Hill, North Carolina 27514 United States of America |
| III-1-6 | State of nationality | US |
| III-1-7 | State of residence | US |

PCT REQUEST

Original (for SUBMISSION)

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| III-2 | Applicant and/or inventor | |
| III-2-1 | This person is: | applicant and inventor |
| III-2-2 | Applicant for | US only |
| III-2-4 | Name (LAST, First) | LEFKOWITZ, Robert, J. |
| III-2-5 | Address: | 5203 Piney Hollow Court Durham, North Carolina 27705 United States of America |
| III-2-6 | State of nationality | US |
| III-2-7 | State of residence | US |
| IV-1 | Agent or common representative; or address for correspondence | |
| | The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: | agent |
| IV-1-1 | Name (LAST, First) | BAUM, Allen, R. |
| IV-1-2 | Address: | BURNS, DOANE, SWECKER & MATHIS LLP PO BOX 1404 Alexandria, Virginia 22313-1404 United States of America |
| IV-1-3 | Telephone No. | (703) 836-6620 |
| IV-1-4 | Facsimile No. | (703) 836-2021 |
| IV-1-6 | Agent's registration No. | 36,086 |
| IV-2 | Additional agent(s) | additional agent(s) with same address as first named agent |
| IV-2-1 | Name(s) | CARTY, Sherry, M. (51,534); DUNSTON, Erin, M. (51,147) |
| V | DESIGNATIONS | |
| V-1 | The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. | |
| VI-1 | Priority claim of earlier national application | |
| VI-1-1 | Filing date | 24 January 2003 (24.01.2003) |
| VI-1-2 | Number | 60/442,403 |
| VI-1-3 | Country | US |
| VI-2 | Priority document request | |
| | The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): | VI-1 |

PCT REQUESTOriginal (for **SUBMISSION**)

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| VII-1 | International Searching Authority Chosen | United States Patent and Trademark Office (USPTO) (ISA/US) | |
| VIII | Declarations | Number of declarations | |
| VIII-1 | Declaration as to the identity of the inventor | - | |
| VIII-2 | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | 1 | |
| VIII-3 | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | 1 | |
| VIII-4 | Declaration of inventorship (only for the purposes of the designation of the United States of America) | - | |
| VIII-5 | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | - | |

PCT REQUEST

Original (for SUBMISSION)

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| VIII-2-1 | Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First) | in relation to this international application DUKE UNIVERSITY is entitled to apply for and be granted a patent by virtue of the following: |
| VIII-2-1(iv) | | an assignment from SHENOY Sudha to DUKE UNIVERSITY, dated 05 May 2003 (05.05.2003) |
| VIII-2-1(iv) | | an assignment from LEFKOWITZ Robert, J. to DUKE UNIVERSITY, dated 05 May 2003 (05.05.2003) |
| VIII-2-1(ix) | This declaration is made for the purposes of: | all designations except the designation of the United States of America |

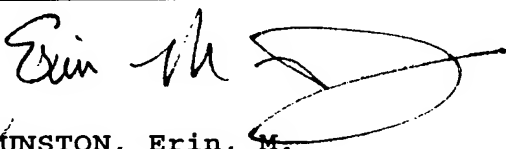
PCT REQUEST

Original (for SUBMISSION)

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| VIII-3-1 | Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)) Name: | in relation to this international application DUKE UNIVERSITY is entitled to claim priority of earlier application No. 60/442,403 by virtue of the following: |
| VIII-3-1(iv) | | an assignment from SHENOY Sudha to DUKE UNIVERSITY, dated 05 May 2003 (05.05.2003) |
| VIII-3-1(iv) | | an assignment from LEFKOWITZ Robert, J. to DUKE UNIVERSITY, dated 05 May 2003 (05.05.2003) |
| VIII-3-1(ix) | This declaration is made for the purposes of: | all designations |

PCT REQUEST

Original (for SUBMISSION)

| IX | Check list | number of sheets | electronic file(s) attached |
|-------|--|--|-----------------------------|
| IX-1 | Request (including declaration sheets) | 6 | - |
| IX-2 | Description | 63 | - |
| IX-3 | Claims | 4 | - |
| IX-4 | Abstract | 1 | ✓ |
| IX-5 | Drawings | 21 | - |
| IX-7 | TOTAL | 95 | |
| | Accompanying Items | paper document(s) attached | electronic file(s) attached |
| IX-8 | Fee calculation sheet | ✓ | - |
| IX-17 | PCT-SAFE physical media | - | ✓ |
| IX-18 | other: | transmittal letter, postcard, check | |
| IX-19 | Figure of the drawings which should accompany the abstract | 6A | |
| IX-20 | Language of filing of the international application | English | |
| X-1 | Signature of applicant, agent or common representative |  | |
| X-1-1 | Name: | DUNSTON, Erin, M. | |
| X-1-2 | Name of signatory | | |
| X-1-3 | Capacity | | |

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| 10-1 | Date of actual receipt of the purported international application | DT20 Rec'd PCT/PTO 26 JAN 2004 (26.01.04) |
| 10-2 | Drawings: | |
| 10-2-1 | Received | |
| 10-2-2 | Not received | |
| 10-3 | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application | |
| 10-4 | Date of timely receipt of the required corrections under PCT Article 11(2) | |
| 10-5 | International Searching Authority | ISA/US |
| 10-6 | Transmittal of search copy delayed until search fee is paid | |

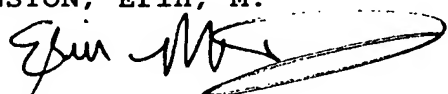
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| 11-1 | Date of receipt of the record copy by the International Bureau | |
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PCT (ANNEX - FEE CALCULATION SHEET)

Original (for SUBMISSION)

(This sheet is not part of and does not count as a sheet of the international application)

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| 0 | For receiving Office use only | | |
| 0-1 | International Application No. | PCT/US 04/02029 | |
| 0-2 | Date stamp of the receiving Office | 26 JAN 2004 (26.01.04) | |
| 0-4 | Form PCT/RO/101 (Annex) PCT Fee Calculation Sheet | | |
| 0-4-1 | Prepared Using | PCT-SAFE [EASY mode] Version 3.50 (Build 0002.150) | |
| 0-9 | Applicant's or agent's file reference | 033072-141 | |
| 2 | Applicant | DUKE UNIVERSITY | |
| 12 | Calculation of prescribed fees | fee amount/multiplier | Total amounts (USD) |
| 12-1 | Transmittal fee T | ⇒ | 300 |
| 12-2-1 | Search fee S | ⇒ | 1000 |
| 12-2-2 | International search to be carried out by | US | |
| 12-3 | International filing fee (first 30 sheets) i1 | 1035 | |
| 12-4 | Remaining sheets | 65 | |
| 12-5 | Additional amount (X) i1 | 11 | |
| 12-6 | Total additional amount i2 | 715 | |
| 12-7 | i1 + i2 = i | 1750 | |
| 12-12 | EASY Filing reduction R | -74 | |
| 12-13 | Total International filing fee (i-R) I | ⇒ | 1676 |
| 12-14 | Fee for priority document | | |
| | Number of priority documents requested | 1 | |
| 12-15 | Fee per document (X) i2 | 20 | |
| 12-16 | Total priority document fee: P | ⇒ | 20 |
| 12-17 | TOTAL FEES PAYABLE (T+S+I+P) | ⇒ | 2996 |
| 12-19 | Mode of payment | cheque | |
| 12-20 | Deposit account instructions | | |
| | The receiving Office | United States Patent and Trademark Office (USPTO) (RO/US) | |
| 12-20-2 | Authorization to charge any deficiency or credit any overpayment in the total fees indicated above. | ✓ | |
| 12-21 | Deposit account No. | 02-4800 | |
| 12-22 | Date | 26 January 2004 (26.01.2004) | |
| 12-23 | Name and signature | DUNSTON, Erin, M.  | |

300 ✓
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 1035 ac
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